

ACADEMY

NEWSLETTER OF THE CALIFORNIA ACADEMY OF SCIENCES

HOME OF
STEINHART
AQUARIUM,
MORRISON
PLANETARIUM,
NATURAL
HISTORY
MUSEUM

CREATURES OF THE ICE AGE & OTHER AMAZING MAMMALS

The mammals have been set loose! Be sure to stop by Wattis Hall, near the back entrance, for a sight you'll never forget. The new "Creatures of the Ice Age & Other Amazing Mammals" exhibit features big, hairy and armored beasts stomping their feet, roaring menacingly and moving their heads to and fro. The hands-on activity center will further fuel kids' imagination as the exhibit's animals come to life before their eyes.

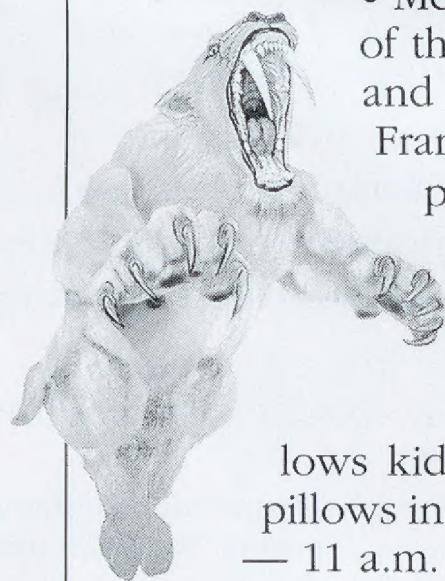
Check out these fun, family activities (kids 10 and under will especially enjoy these programs):

- With the help of art instructor Bettie Allen, families can "dress up" a burlap model of a baby mammoth with yarn as fur — 11 a.m. to 3 p.m., **Mar. 9-10.**

- Meet some modern relatives of the ice ages; a live vulture and opossum from the San Francisco Zoo — noon to 1 p.m., **Mar. 16.**

- Come make 2-foot-long woolly mammoths to take home.

This floor activity allows kids to cut and stuff paper pillows in the shape of a mammoth — 11 a.m. to 3 p.m., **Mar. 23.**



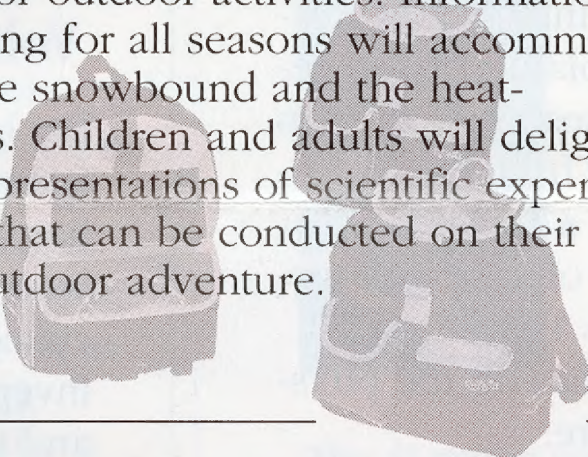
ACADEMY STORE



Camp Wild California

The Academy Store will sponsor an exciting, day-long outdoor festival — indoors. Wild California will be converted to a camping paradise on Saturday, **Mar. 30** from 10 a.m. until 4 p.m., complete with tents and lanterns, and demonstrations teaching great techniques to get the most out of your outdoor vacations.

A dozen vendors will demonstrate their best outdoor products, such as microscopes, telescopes, field guides and Swiss Army knives, and Academy staff will share their own knowledge about what makes California a great place for outdoor activities. Information on hiking for all seasons will accommodate the snowbound and the heat-seekers. Children and adults will delight in the presentations of scientific experiments that can be conducted on their next outdoor adventure.



11th Annual Academy Ball

Enchanted Pacific

Enjoy an evening of dancing, dinner and festive entertainment at the Academy of Sciences' 11th annual black-tie, fund-raising event. "Enchanted Pacific" will be held on Thursday, **May 2** from 6:30 p.m. to 12:30 a.m. Tom Klein and Kate Kelly are this year's dinner chairs.

Cocktails, dancing and a formal, seated dinner take place throughout the whole Academy, and a lavish dessert buffet will be served under an elegantly decorated tent in the Whale Courtyard. Tickets begin at \$250 per person. For more information, please call 750-7222.



Science Takes to the Airwaves

Tune into *Science In Action*, the California Academy of Sciences' radio program hosted by KCBS radio celebrity Jerry Kay. Formerly called *EARTHNEWS*, the radio show now focuses on providing a scientific context and a Bay Area perspective on fast-breaking science news stories. The show, which has aired every day since 1983 in one format or another, is a series 90-second spots that draw on the expertise of Academy of Sciences researchers and fellows to assess the significance of discoveries in the sciences.

In the Bay Area, you'll find *Science In Action* daily on KQED 88.5 FM at 4 p.m., throughout the weekend on KCBS 740 AM, and at 6 p.m. on weekends on KDFC 102.1 FM. Kay, known as the voice of the Academy, invites listeners to respond to stories and suggest new topics by e-mailing him at earth@microweb.com.

MEMBERS MEETING

CALL OF THE WOLF: REAL OR IMAGINED

Humans have either cursed or deified wolves ever since the two species came into contact with each other. Don't miss the chance to decide for yourself where wolves fit into these two extremes by meeting a real representative of North America's most enchanting predatory species. Koani, a 100-pound gray wolf from Montana, and her dog companion, Indy, will join wildlife biologist Patricia Tucker and documentary filmmaker Bruce Weide in this dynamic presentation.

As an ambassador wolf, Koani represents Wild Sentry, a nonprofit organization that blends science and the humanities to entertain and inform. Wild Sentry's programs emphasize the wolf as a symbol of wildness and, although Koani is a socialized wolf, stresses the inappropriateness of wolves as pets.

Tucker has dedicated her life to the plight of the wolf. Before starting Wild Sentry, she was a biologist for the National Wildlife Federation. Tucker will offer a glimpse into the secret lives of wolves, and Weide will tell stories of wolves from myth and folklore. The combination of wildlife biology and an outstanding collection of slide imagery will explore the cultural attitudes towards the wolf, as well as its natural history and behavior.

Wed., Mar. 13 — 2 p.m. & 7:30 p.m.

Please present your membership card both at the front entrance and auditorium. This program is a benefit of membership. Members' guest passes can be purchased at \$10 each for adults and \$5 for children. Please Note: Only the main entrance will be open for the members' evening lectures.



Craig Hjelmervik

Special Exploratorium Offer for Academy Members

The Exploratorium is extending a special offer to members of the Academy of Sciences. Become a member of the Exploratorium during the months of March or April and you will receive \$10 off your membership fee.

The discounted price and categories for membership are as follows: \$30 Active (two individuals, one card), \$40 Family (two adults and their children), \$65 Sponsoring (family benefits and five guest passes), \$115 Contributing (sponsoring benefits, with Tactile Dome tickets and other benefits).

All members receive express entry through their members' only entrance; a subscription to *Exploring* magazine and bi-monthly newsletter *Explo News*; a 15 percent discount on store purchases and discounts for Tactile Dome visits, events, programs and performances; invitations to exclusive member-only events; and free admission to over 150 science centers worldwide.

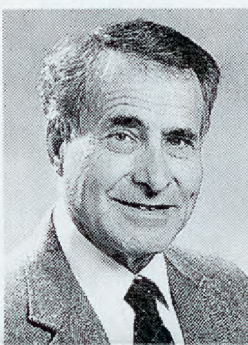
To sign up, please specify category of membership and send check to: Exploratorium, 3601 Lyon St., San Francisco, CA 94123. Please include your Academy membership number to take advantage of this special offer. For more information, please call the Exploratorium at (415) 353-0402.



MORRISON PLANETARIUM

Galileo Probe at Jupiter

B. Dean Astronomy Lecture: The Galileo Probe on Dec. 7 was an historic event, marking humankind's first effort to explore the outer atmosphere of a primitive planet. Gaseous planets such as Jupiter are more typical than planets like Earth, and closer analysis of the data obtained from Jupiter will give us a better understanding of these planets.



The probe's successful plunge into Jupiter's atmosphere was the culmination of planning and research that began at the Ames Research Center in the late 1960s. Dr. Alvin Seiff, retired from the NASA-Ames Research Center and currently a research associate at the San Jose State Foundation department of meteorology, has studied the possibility of a Jupiter probe since 1966.

Seiff will discuss how the probe obtained specifics on the physics and chemistry of Jupiter's accessible atmosphere.

Tue., Mar. 26 — 7:30 p.m.; Tickets \$3 each

The Spring '96 series will continue with Dr. Roger Romani on gamma ray astronomy, 4/16; and Dr. Tim Hunter on problems of light pollution, 5/21. For tickets, please use order form on back. Tickets may be available the day of the lecture on a standby basis. Call 750-7141 for more information.

Journey By Starlight

Feature Sky Show: How would you find your way without modern navigational tools — no compass, no telephone, no Global Positioning System ...? Many methods have been used, but ever since it was realized that the stars could be excellent guides, their light has led pilgrims, seafarers, explorers, and — today — spacecraft on their journeys. For as long as travellers have gazed skyward, the stars have guided them in their journeys. The show opens Mar. 15 and runs through June 16 at 2 p.m. weekdays and 2 p.m. and 4 p.m. on weekends.

March Sky Shows

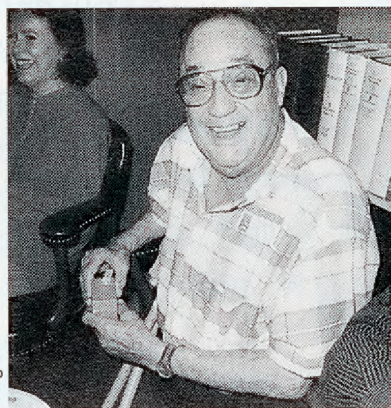
The Planetarium will be CLOSED March 11-14 for sky show changes.

Sky Show/Description	Weekday	Weekend
1996 Almanac celestial events of '96 (ends Mar. 10)	2 p.m.	2 & 4 p.m.
Journey by Starlight navigating by stars (opens Mar. 15)	2 p.m.	2 & 4 p.m.
Knock, Knock search for extraterrestrial life	—	1 & 3 p.m.
StarTalk tour of the night sky	—	noon
Where in Space is Carmen Sandiego® a family show	—	11 a.m.

Tickets can be purchased one half hour before the show at the box office once inside the Academy of Sciences (\$2.50 adults/\$1.25 youth, though some shows vary). Members must redeem their passes for tickets at the box office prior to the show. For more information, please call 750-7141.

Shuck and Swallow for the Academy's Sake

What could be a better combination than oysters and wine? Perhaps supporting the Academy of Sciences while having a great time. Join McCormick and Kuleto's Seafood Restaurant at Ghirardelli Square for the 4th annual Shuck and Swallow on Monday, **Mar. 4** from 4 p.m. to 7 p.m. Celebrity chefs will amaze you with their shucking and oyster gulping skills in a prestigious contest. After, support the Academy by participating in the oyster and wine pairing celebration for \$20. For more information, call McCormick and Kuleto's at (415) 929-1730.



Birds & Mammals Volunteers Recognized

On Jan. 11, the Academy of Sciences' hosted an appreciation party for the volunteers who assist with fieldwork, collections preparation and inventory, data management, and translation in the Ornithology and Mammalogy Department. Volunteers work in all areas of the Academy and play integral roles in many scientific and educational efforts. In the photo above, Fred Shelton opens a token of the department's appreciation.

If you would like information on docent training and volunteer opportunities at the Academy of Sciences, please call 750-7154.



SPECIAL



Lessons from the "hot zone"

outbreak of disease and the viruses are studied.

Dr. Warren Levinson, professor at the University of California San Francisco, is the author of a textbook on microbiology and virologists have learned from the outbreak of disease and the viruses are studied.

Tue., Mar. 19 — 7:30 p.m.
\$6 members/\$10 nonmembers

Children of Ramesses II in the Valley

Stepping into an Egyptian tomb — cultural icons, architectural know-how reveal a new discovery. Kent Weeks, professor of Egyptology at the University of California, San Diego, as he interprets the discovery of the children of Ramesses II's children, dubbed the "Children of the Valley."

Weeks has directed the Theban Mapping Project at the American University in Cairo for the past 10 years. Prior to this position, he worked as an assistant curator of Egyptian art at the Metropolitan Museum of Art in New York and was associate professor of Egyptology at University of California Berkeley.

Weeks' excavation unearthed a tomb with dozens more probably stolen artifacts, not only because of its size, but also because of its location.

Thur., Mar. 21 — 7:30 p.m.
\$6 members/\$10 nonmembers

Special Lectures are presented in the Academy of Sciences tickets. For more information, call 750-7141.

ACADEMY OF SCIENCES

South Africa: Giants, Giraffes & the Garden Route

This well-balanced journey, escorted by Bob Drewes, captures South Africa's incredible character and diversity: the extraordinary viewing Africa's classic big game in the South African Lowveld; the rolling grasslands of Zululand where the British battled the powerful charismatic Zulu kings; the Drakensberg Mountains; and finally the coastal city of Cape Town with its beautiful Cape Dutch architecture. Throughout this journey you will enjoy the flexibility and privacy of traveling by private aircraft.

Sept. 6-22
Cost: \$9,100 per person (double occupancy), including international air from New York to Johannesburg and Cape Town to Miami. (Add-on coach airfare to/from San Francisco.)

Emerging Viruses: Diseases from the Hot Zone

Various diseases are constantly appearing seemingly out of nowhere! Many diseases are caused by viruses, including Ebola virus and Hantavirus. The term "hot zone" is a term for both the place where the lethal viruses have caused an outbreak and the high security labs where the viruses are studied.

Dr. David T. Levinson, professor at the school of medicine, University of California and the author of a medical textbook on immunology, will discuss what diseases are in the hot zone. Levinson will address, such as how they differ from other diseases, how they are transmitted, and whether these infections can be prevented.

II: Recent Discoveries of the Kings

It is almost like traveling through time, using engineering methods and architectural drawings to picture of ancient life. Join Dr. David T. Levinson at the American University of Beirut, what may be the largest tomb of the Kings, the tomb of Pharaoh KV-5.



David Wallace, BBC

at least 67 chambers in KV-5, all buried. KV-5 is significant not only because of its complex structure.

the auditorium. Use order form for tickets, please call 750-7128.

ADULT EDUCATION



Southwestern Indian Pottery

Pueblo Indians, along with other Southwestern tribes, have made pottery for hundreds of years and have sold their pottery to non-Indians since the latter 1800s. Russ Hartman will introduce the various styles of pottery produced at the pueblo, emphasizing the 1890–1950 period, in this slide-illustrated class. He also will show examples from the Academy's anthropology collection.

Thur., Mar. 28 — 7 p.m. to 9 p.m.
Cost: \$12 members/\$15 nonmembers

Bay Cruise South

We're back on the water with Gary Holloway, historian extraordinaire. Starting from near Pier 39, see the newly renovated waterfront of San Francisco. Entering San Mateo County, see how extensive landfill has severely altered the original shoreline and discuss bay-front land uses. Crossing under the San Mateo Bridge, see master-planned Foster City and our first bay wetlands. Then we're off to the eastern shore, from San Lorenzo, north to Oakland's marinas, the Oakland Airport, and Bay Island with its residential development. En route we will see the Gold Coast of Alameda and the large naval installations of Alameda and Oakland before returning to San Francisco.

Sat., Apr. 13 — 10 a.m. to 2 p.m.
Cost: \$59 members/\$69 nonmembers (Includes box lunch)

For more information, contact the adult education program at 750-7100.

TRAVEL

Offes

led by Dr. David T. Levinson's remarkable excitement of the rugged hills of powerful and s — with her enjoy the

York to
cisco, \$160)

Exploring the Pacific Northwest

This voyage spends six days exploring the beautiful island-studded waterways between Seattle and Vancouver aboard the *M.V. Sea Lion*. With guide Dave White, passengers will explore the labyrinth of channels, straits and inlets as well as the many quaint towns in the region. Whales, dolphins and other wildlife can be seen in the deep channels between the islands.

Sept. 17–22
Cost: \$1,990–\$3,000 per person (double occupancy), without airfare

For more information on these and other Academy staff-led tours, please call 750-7348.

CONVERSATIONS AT THE HERBST THEATRE

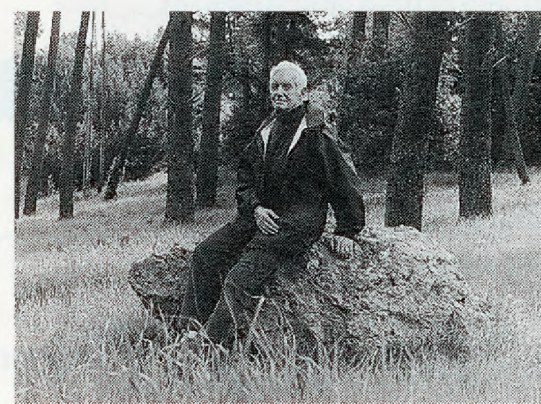
Environmentalist David Brower

Often called the archdruid, the ultimate environmentalist, David Brower has had a profound impact on the state of America's wildlands. He has helped create national parks and seashores such as Point Reyes, Kings Canyon and the North Cascades. He is the author of several books on the environment, including his latest work, *Let the Mountains Talk, Let the Rivers Run*.

Brower was the Sierra Club's first executive director from 1952 to 1969. He founded Friends of the Earth, along with the League of Conservation Voters, and initiated the founding of independent Friends of the Earth organizations in other countries. He is the founder and chairman of Earth Island Institute.

Brower will be joined in conversation with Mark Dowie, the former editor-at-large of *InterNation*, a transnational feature syndicate. Dowie has been nominated for a Pulitzer Prize for his book *Losing Ground: American Environmentalism at the Close of the Twentieth Century*.

Tue., Apr. 2 — 8 p.m.
Call (415) 392-4400 for tickets
\$12 members/\$16 nonmembers



This lecture series is held at the Herbst Theatre at 401 S. Van Ness Ave. The series is made possible in part by grants from The Columbia Foundation and The Richard & Rhoda Goldman Fund. Other speakers in the series include Ivan Doig, 4/25; E.O. Wilson, 5/13; and Mary Catherine Bateson, 5/28.

YOUNG AUDIENCES



Sounds and Song From the Synthesizer

David Young, a classically trained musician, demonstrates how computer technology has changed the way we create new sounds and music. Using the synthesizer, Young involves audience members in helping to create music right on stage.

Sun., Mar. 17 — 1 p.m.

This 45-minute family series is presented in the auditorium and is funded by San Francisco Grants for the Arts. Free after general admission. For more information, call Young Audiences at (415) 863-1719.

TRADITIONAL ARTS

African-American Hair Braiding

Shabazz Yubar demonstrates the elaborate techniques of hair braiding as passed down from her ancestors. The fashion of hair braiding, reserved as a status symbol for the elite, probably originated in Egypt around 3000 B.C.

Sat., Mar. 9 — 1 p.m. to 2 p.m. (Auditorium)

Spinning With Angora

Textile artist Adrienne Werren describes the process and history of spinning techniques on both the drop spindle and the wheel. Werren breeds French angora rabbits and uses the wool for her knitted creations.

Sat., Mar. 16 — 1 p.m. to 2 p.m. (Auditorium)

Appalachian Music

Visiting the Bay Area from Leesburg, Virginia, Duck Baker and Molly Andrews present Appalachian ballads and fiddle tunes played on the autoharp, dulcimer and guitar.

Sat., Mar. 30 — 1 p.m. to 2 p.m.
(Auditorium)

Explore cultural traditions from around the world. Free after general admission. Call 750-7164, for more information.



MARCH

SUN.	MON.	TUE.	WED.	THU.	FRI.	SAT.
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

- 2

Saturday

Bread, A Language of Life, 9 a.m. (Reitz Food Symposium)
- 4

Monday

Oyster Shuck & Swallow, 4 p.m. (at McCormick and Kuleto's)
- 9

Saturday

Build a Mammoth, 11 a.m. (Family Activity)

African-American Hair Braiding, 1 p.m. (Traditional Arts)
- 10

Sunday

"1996 Almanac" sky show closes

Build a Mammoth, 11 a.m. (Family Activity)
- 11

Monday

Planetarium closed through the 14th for sky show changes
- 13

Wednesday

Call of the Wolf, 2 p.m. & 7:30 p.m. (Members Meeting)
- 15

Friday

Planetarium reopens with "Journey by Starlight" sky show
- 16

Saturday

S.F. Zoo vulture and opossum visit, noon (Family Activity)

Spinning with Angora, 1 p.m. (Traditional Arts)
- 17

Sunday

Sounds and Song From the Synthesizer, 1 p.m. (Young Audiences)
- 19

Tuesday

Emerging Viruses, 7:30 p.m. (Special Lecture)
- 21

Thursday

Children of Ramesses II, 7:30 p.m. (Special Lecture)
- 23

Saturday

Mammoth shaped pillows, 11 a.m. (Family Activity)
- 26

Tuesday

Galileo Probe at Jupiter, 7:30 p.m. (B. Dean Lecture)
- 30

Saturday

Wild and Woolly Mammals class, 10 a.m. (Junior Academy)

Appalachian Music, 1 p.m. (Traditional Arts)

Camp Wild California, 10 a.m. (Academy Store)

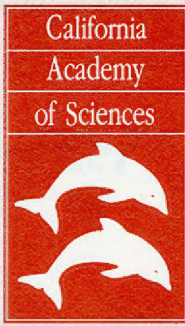
FUTURE DATES TO REMEMBER

Apr. 2, David Brower (Herbst Lecture); **Apr. 10**, Frogs, with Bob Drewes (Members Meeting); **Apr. 11**, Evening in the Ice Ages (Special Lecture); **Apr. 16**, Gamma Ray Astronomy (B. Dean Lec.)

VISITOR INFORMATION

Special Exhibits: "Creatures of the Ice Age & Other Amazing Mammals," through May 5; "Lu Huan: Stone Carvings by a Chinese Master," through May 26; "Song of the Ancient Ocean: Maui's Turning Back the Sky," through May 27; "Around the World in Eighty Years," through Sep. 2. • **Feeding Times:** Fish Roundabout, 2 p.m.; Seals, 10:30 a.m., 12:30 p.m., & 2:30 p.m.; Penguins, 11:30 a.m., & 4 p.m. • **Science In Action:** General weekday programs, 11:30 a.m. Children's weekend programs, 1 p.m., & 3:30 p.m. • **Guided Tours:** Free one-hour highlight tours daily. • **Laserium Shows:** Thu.-Sun. evenings. • **Free Day:** First Wed. of each month. • **Hours:** Open every day of the year. Winter hours 10 a.m.-5 p.m. Summer hours (Memorial Day to Labor Day) 9 a.m.-6 p.m.

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San Francisco, CA 94118-4599

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SPECIAL LECTURES

	Qty/Mem.	Qty/Nonmem.	Total
Emerging Viruses / Mar. 19	x \$ 6	x \$ 10	=
Children of Ramesses II / Mar. 21	x \$ 6	x \$ 10	=
TOTAL			

B. DEAN ASTRONOMY LECTURE SERIES

	Quantity	Total
Galileo Probe at Jupiter / Mar. 26	x \$ 3	=
Gamma Ray Astronomy / Apr. 16	x \$ 3	=
Problems of Light Pollution / May 21	x \$ 3	=
TOTAL		

JUNIOR ACADEMY SPECIAL CLASS

	Quantity	Total
Wild and Woolly Mammals / Mar. 30	x \$ 20	=

- ☐ **Check** (make payable to C.A.S.)
☐ **VISA** ☐ **MasterCard** ☐ **American Express** (\$10 minimum on credit orders)
Card Number _____ **Exp. Date** _____
Daytime Phone _____

CONVERSATIONS & LECTURES AT THE HERBST THEATRE

David Brower, April 2; Ivan Doig, April 25; E.O. Wilson, May 13; Mary Catherine Bateson, May 28
For tickets, please call City Box Office, (415) 392-4400.

ENCHANTED PACIFIC, ACADEMY BALL

☐ Please reserve a space for me at the 11th annual Academy Ball. Enclosed is my check for \$250 per person.

DONATIONS

☐ I would like to support the California Academy of Sciences with a donation. \$ _____

TOTAL PAYMENT ENCLOSED \$ _____

Mail payment and order form to: Membership Office, Ticket Services, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118-4599

Include a self-addressed, stamped envelope for each series to which you subscribe. No refunds/exchanges.

Around the World in Eighty Years

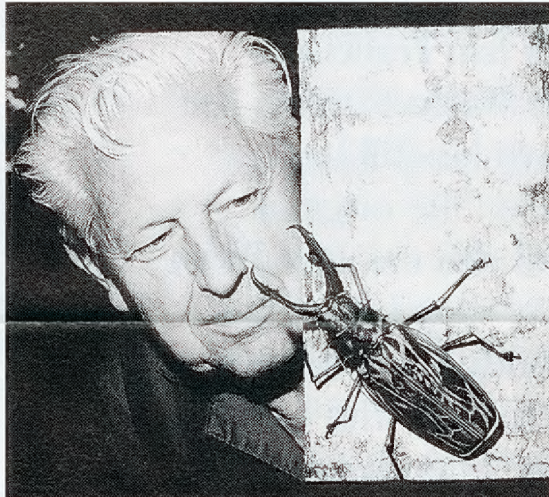
PHOTOGRAPHS BY EDWARD S. ROSS

One might imagine that the entomologist's life is spent entirely in the company of pinned insects. Not so, if the entomologist in question is the Academy of Sciences' curator emeritus of entomology Dr. Edward S. Ross. Ross' fascination with the order *Embiidina* (web spinners) has led him on a life-long tour of five continents to some of the cradles of insect evolution.

As evidenced in the display "Around the World in Eighty Years," Ross' studies have been well served by his photographic acumen. In the 1950s, Ross pioneered the use of electronic flash and single-lens reflex cameras — a technique widely used to-

day. The resulting vivid close-ups of insects and other small creatures and insightful images of peoples of South America, Africa and Asia illustrate the life journey of a scientist.

These 85 beautiful images, ranging in size from 10 by 14 inches to 20 by 30 inches, currently adorn the walls of the Academy's cafe and will be on display through Labor Day, Sep. 2.



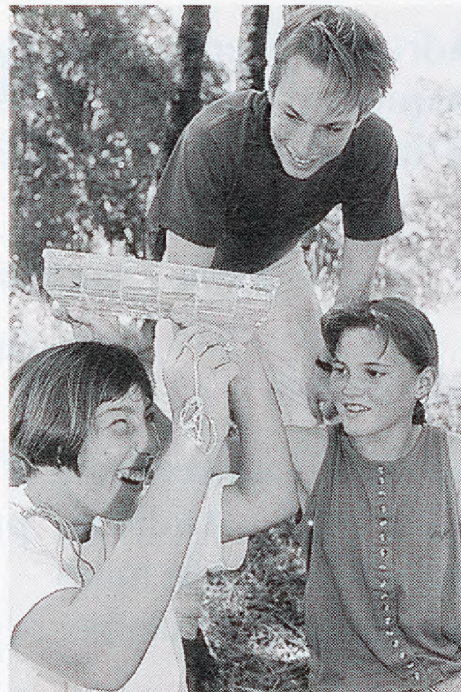
E.S. Ross



Masai warrior (moran); Tanzania

Edward Ross and giant longhorn beetle

Junior Academy Springs Into Action With New Holiday Workshops



Dong Lin

The Junior Academy spring programs will take place April 1-13. Join us for hands-on science adventures in more than 30 workshops and field trips for children ages 6-16 years. Some samples include:

- * What's Cookin'? — examine first-hand some of the scientific principles at work in the kitchen (9-16 years)
- * Going Batty — a close-up look at the anatomy, adaptation and lifestyle of bats (6-8 years)
- * Physics of Roller Coasters — experience Great America's latest sensational rides (10-16 years)
- * Fire on the Point — explore the after math of the devastating fire at Point Reyes National Seashore (10-16 years)

Plus classes on sharks, insects, frogs, math, physics, marine biology, art and anthropology. You will find the Junior Academy classes and registration information in the Adult and Family Education catalog. Or, please call the education department at 750-7100.



WILD & WOOLLY MAMMALS SPECIAL JUNIOR ACADEMY CLASS

Learn more about the wild and woolly animals of the Ice Ages. Susan Douglas, the Academy's teacher and visitor education coordinator, will use the exhibit "Creatures of the Ice Age & Other Amazing Mammals" and hands-on activities to help 6 to 8 year-olds investigate these fascinating mammals. Where did they live, and why did they become extinct? Discover why armadillos and sloths grew to be 13 feet long. Have fun making take-home projects to share with family friends. Please use order form to enroll.

Sat., Mar. 30 — 10 a.m. to noon;
Cost: \$20

WHOTO CALL ☎ Academy Info., 750-7145 • Academy Store, 750-7410 • Admissions, 750-7159 • Aquarium, 750-7247 • Biodiversity Center, 750-7361 • Development Office, 750-7216 • Docent Tours, 750-7155 • Education Office, 750-7100 • Group Information, 750-7159 • Job Hotline, 750-7333 • Laserium, 750-7138 • Lectures, 750-7128 • Library, 750-7102 • Membership Office, 750-7111 • Planetarium, 750-7141 • Planned Giving, 750-7216 • Receptionist, 221-5100 • Security, 750-7000 • Travel, 750-7348 • Volunteer Services, 750-7154 • Weekend Information, 750-7375

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